

**DOE National Nuclear
Security Administration
NNSA
Lessons Learned Program**

**SELLS Spring Meeting
Rocky Flats Office**

**Thomas Rotella, DP-45
April 3-5, 2001**

NNSA Lessons Learned

NNSA/DP CONCEPT

- **LL Program was Initiated under DP to Meet the Intent of the FRAM.**
- **As an Entity of the NNSA, DP will Attempt to Accommodate the Goal of LL for NNSA.**

NNSA Lessons Learned

PURPOSE

- **Facilitate the requirement to share lessons learned information in a consistent and timely manner among NNSA personnel.**

NNSA Lessons Learned

PROGRAM DEVELOPMENT PROCESS (Seven Phase Process)

- 1 Research and Scoping**
- 2 Prototype Development**
- 3 “Pilot” the User Interface**
- 4 Gatekeeper/SME Interface**
- 5 Enhancements**
- 6 Implementation**
- 7 Dissemination/Maintenance**

NNSA Lessons Learned

1. RESEARCH AND SCOPING

- **Information Gathering from Federal and Industry Sources.**
- **Effort Culminated in Development of a Matrix for Easy Identification Across Functional Areas.**

NNSA Lessons Learned

2. PROTOTYPE DEVELOPMENT

- **Initial Web Programming**
- **User Customized Profile Selection**
- **Web Spidering to DOE SELLS**
- **E-Mail “Push” to Users for Implementation & Evaluation of LL Utility**

NNSA Lessons Learned

2. PROTOTYPE DEVELOPMENT (cont.)

- **Keyword Search Capability**
- **User Submittal Option for Internally Generated LL Sharing**

NNSA Lessons Learned

3. PILOT the USER INTERFACE

- Select Sample of Users for Pilot
- Web Access and Establishment of User Portfolios
- Web Spidering to GIDEP to Centralize LL Sharing
- Begin Email-Push of LL to Piloteers

NNSA Lessons Learned

3. PILOT the USER INTERFACE (cont.)

- User Enabled Function to Evaluate LL Utility for Effectiveness of Implementation.
- Obtain Feedback from Customers.

NNSA Lessons Learned

4. GATEKEEPER/SME INTERFACE

- **Administrator Feature to Screen LL for Program Applicability.**
- **LL will be Binned (Coded) for Immediate Use.**
- **Then LL will be “Pushed” via E-Mail through Portfolio Channels to Users.**

NNSA Lessons Learned

5. ENHANCEMENTS

- ▲ **User Profile Functionality with LL Evaluation Feature expanded.**
- ▲ **Establishing Permanent Gatekeeper/SME Interface for Screening Lessons Learned.**
- ▲ **Web Spidering to Additional LL Sources.**
- ▲ **Others from Pilot Feedback**

NNSA Lessons Learned

6. IMPLEMENTATION

- ▲ **NNSA-Wide Announcement/Rollout**
- ▲ **Ensure Establishment of Profiles for all NNSA Users.**
- ▲ **Training, Indoctrination and Customer Follow-up.**
- ▲ **Ensure Appropriate Actions Taken on LL Received (spot - check).**

NNSA Lessons Learned

7. DISSEMINATION/MAINTENANCE

- ▲ Continue Using System to Distribute LL
- ▲ Provide Continuous User Support
- ▲ Develop Metrics on System Use
- ▲ Develop Metrics on LL System Effectiveness

NNSA Lessons Learned

QUESTIONS/COMMENTS ?

- + Tom Rotella, DOE/NNSA Lessons Learned Coordinator, 301-903-2649.**
- + Chris Coccagna, SAIC, 301-353-8302.**

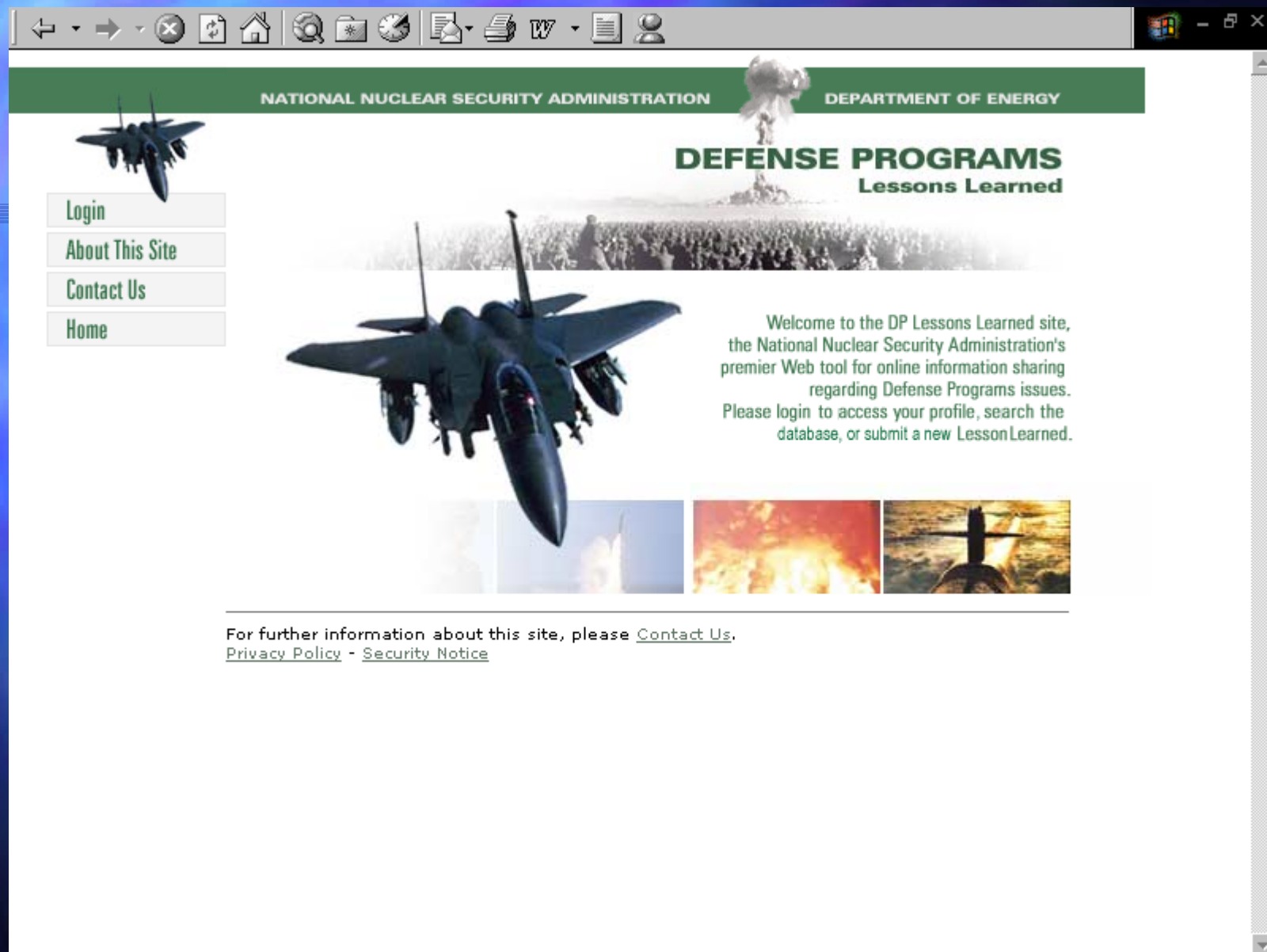
NNSA Lessons Learned

Link to NNSA/DP LL Site for Demo

(not to be utilized for Production)

<http://205.153.240.19/>

- + User Name for Demo “RotellaT”**
- + Password for Demo *****.**





DEFENSE PROGRAMS

Lessons Learned

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ESTABLISH USER PROFILE

Please enter your contact information to receive lessons learned reports, bold fields required.

First Name:**Last Name:****Title:****User ID:****Phone Number:****E-Mail:****DOE Office:****Routing Symbol:****Address1:****Address2:****City:****State:****Zip:****Mail Stop:**

SET UP DELIVERY OPTIONS

Interval to receive emails on

Daily

Click box if you wish to review historical reports of Lessons Learned matching your criteria (this will take you to a list of reports after your profile has been submitted):

☐

Click box if you wish to receive historical reports of Lessons Learned matching your criteria **via email**:

☐

In order to filter the lessons learned you will receive, please select from below the items of interest. To select more than one field in any box, please hold down the Ctrl key and click on all items that are applicable.

ISM Core Functions

All	▲
Define Work	
Analyze Hazards	
Develop / Implement Controls	
Perform Work	▼

Lessons Learned Hazards

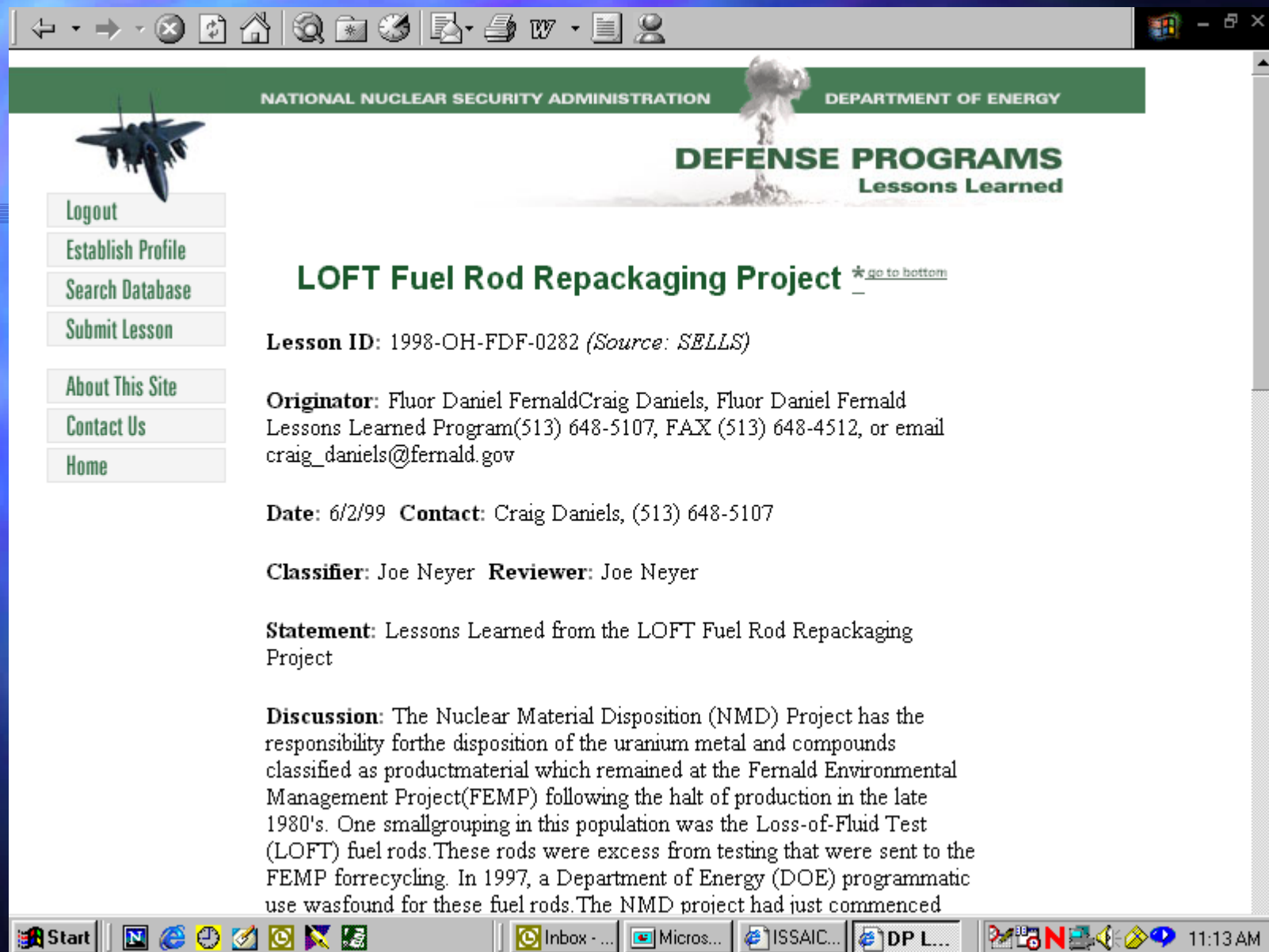
All	▲
Confined Space	
Electrical / NEC	
Elevated Work / Falling Objects	
Environmental Release	
Ergonomics / Lifting	
Excavation & Trenching	
Fire / Smoke / NFPA	▼

Work Functions:

All	▲
Alternate Fuels	
Authorization Basis	
Business and Support Services	
Conduct of Operations - Configuration Management	
Conduct of Operations - General	
Conduct of Operations - Lock and Tag	
Conduct of Operations - Procedure Adherence	▼

Priority Descriptors

Red / Urgent	▲
Yellow / Caution	
Blue / Information	
Green / Good Work Practice	▼



The screenshot shows a web browser window with a green header bar. The header contains the text "NATIONAL NUCLEAR SECURITY ADMINISTRATION" and "DEPARTMENT OF ENERGY". Below the header, there is a navigation menu on the left with links: "Logout", "Establish Profile", "Search Database", "Submit Lesson", "About This Site", "Contact Us", and "Home". The main content area features a large image of a nuclear explosion and the title "DEFENSE PROGRAMS Lessons Learned". The specific page title is "LOFT Fuel Rod Repackaging Project" with a link to "go to bottom". The page content includes the following information:

Lesson ID: 1998-OH-FDF-0282 (Source: SELLS)

Originator: Fluor Daniel Fernald Craig Daniels, Fluor Daniel Fernald Lessons Learned Program (513) 648-5107, FAX (513) 648-4512, or email craig_daniels@fernald.gov

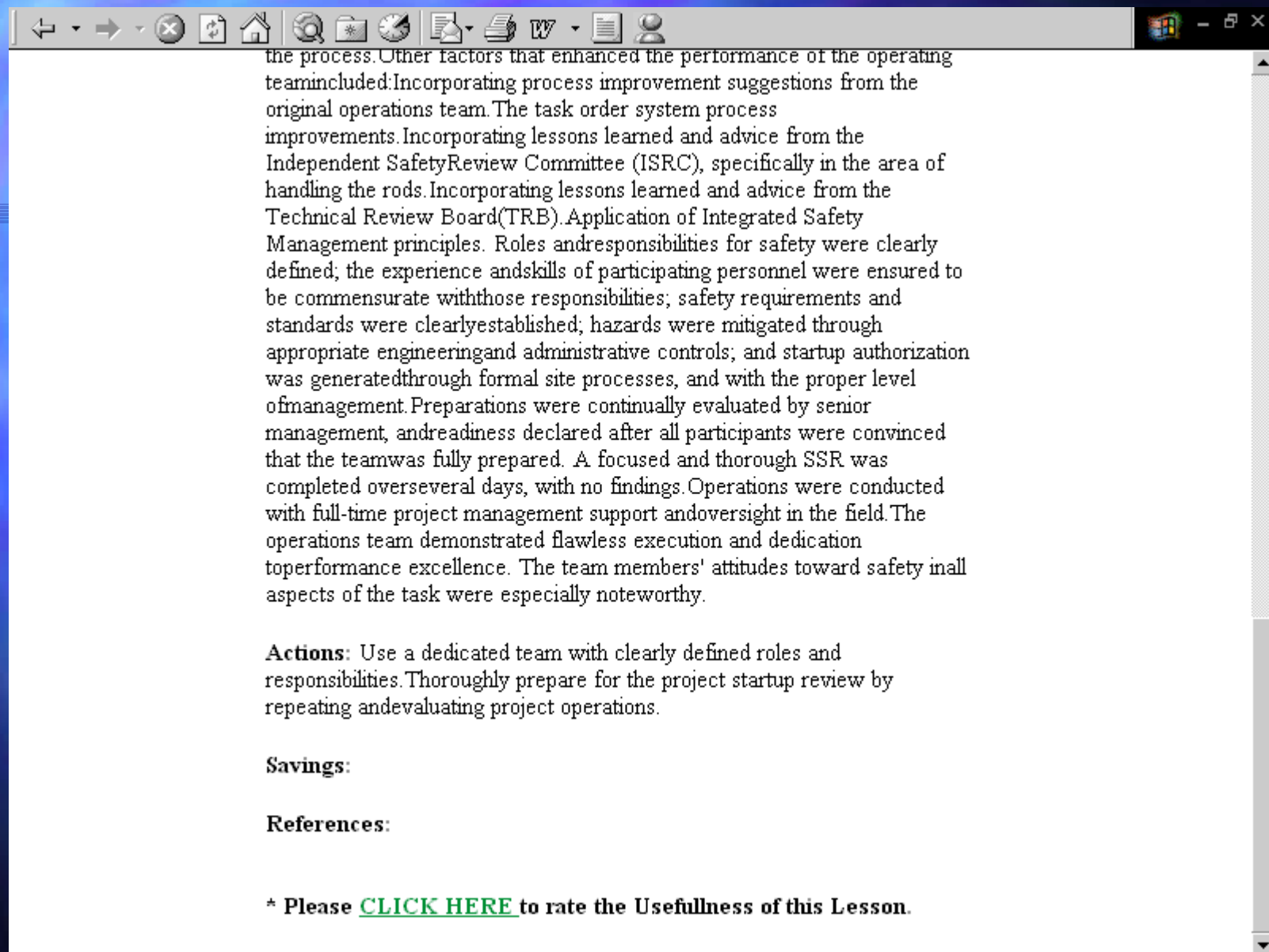
Date: 6/2/99 **Contact:** Craig Daniels, (513) 648-5107

Classifier: Joe Neyer **Reviewer:** Joe Neyer

Statement: Lessons Learned from the LOFT Fuel Rod Repackaging Project

Discussion: The Nuclear Material Disposition (NMD) Project has the responsibility for the disposition of the uranium metal and compounds classified as product material which remained at the Fernald Environmental Management Project (FEMP) following the halt of production in the late 1980's. One small grouping in this population was the Loss-of-Fluid Test (LOFT) fuel rods. These rods were excess from testing that were sent to the FEMP for recycling. In 1997, a Department of Energy (DOE) programmatic use was found for these fuel rods. The NMD project had just commenced

The browser's taskbar at the bottom shows the Start button, several open applications (Inbox, Micros..., ISSAIC..., DP L...), and the system clock displaying 11:13 AM.




the process. Other factors that enhanced the performance of the operating team included: Incorporating process improvement suggestions from the original operations team. The task order system process improvements. Incorporating lessons learned and advice from the Independent Safety Review Committee (ISRC), specifically in the area of handling the rods. Incorporating lessons learned and advice from the Technical Review Board (TRB). Application of Integrated Safety Management principles. Roles and responsibilities for safety were clearly defined; the experience and skills of participating personnel were ensured to be commensurate with those responsibilities; safety requirements and standards were clearly established; hazards were mitigated through appropriate engineering and administrative controls; and startup authorization was generated through formal site processes, and with the proper level of management. Preparations were continually evaluated by senior management, and readiness declared after all participants were convinced that the team was fully prepared. A focused and thorough SSR was completed over several days, with no findings. Operations were conducted with full-time project management support and oversight in the field. The operations team demonstrated flawless execution and dedication to performance excellence. The team members' attitudes toward safety in all aspects of the task were especially noteworthy.

Actions: Use a dedicated team with clearly defined roles and responsibilities. Thoroughly prepare for the project startup review by repeating and evaluating project operations.

Savings:

References:

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NATIONAL NUCLEAR SECURITY ADMINISTRATION

DEPARTMENT OF ENERGY



DEFENSE PROGRAMS
Lessons Learned

Rate Lesson - LOFT Fuel Rod Repackaging Project

Please enter the following information concerning this Lesson.

Check **one**:

Adopted: ☐ Previously Adopted: ☐ Under Investigation: ☐ Not Applicable: ☐

If you checked 'Adopted' or 'Previously Adopted' above:

Improvements:

No Improvements

Operations Readiness

Safety

Mission Downtime Avoided

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